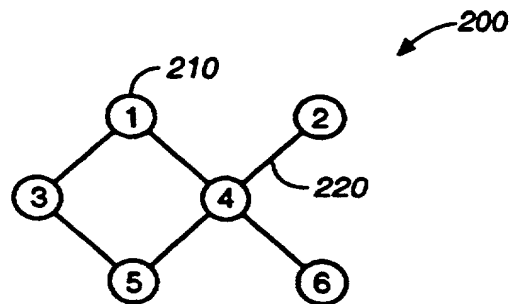*Fig. 1*
(Prior Art)

Fig. 2
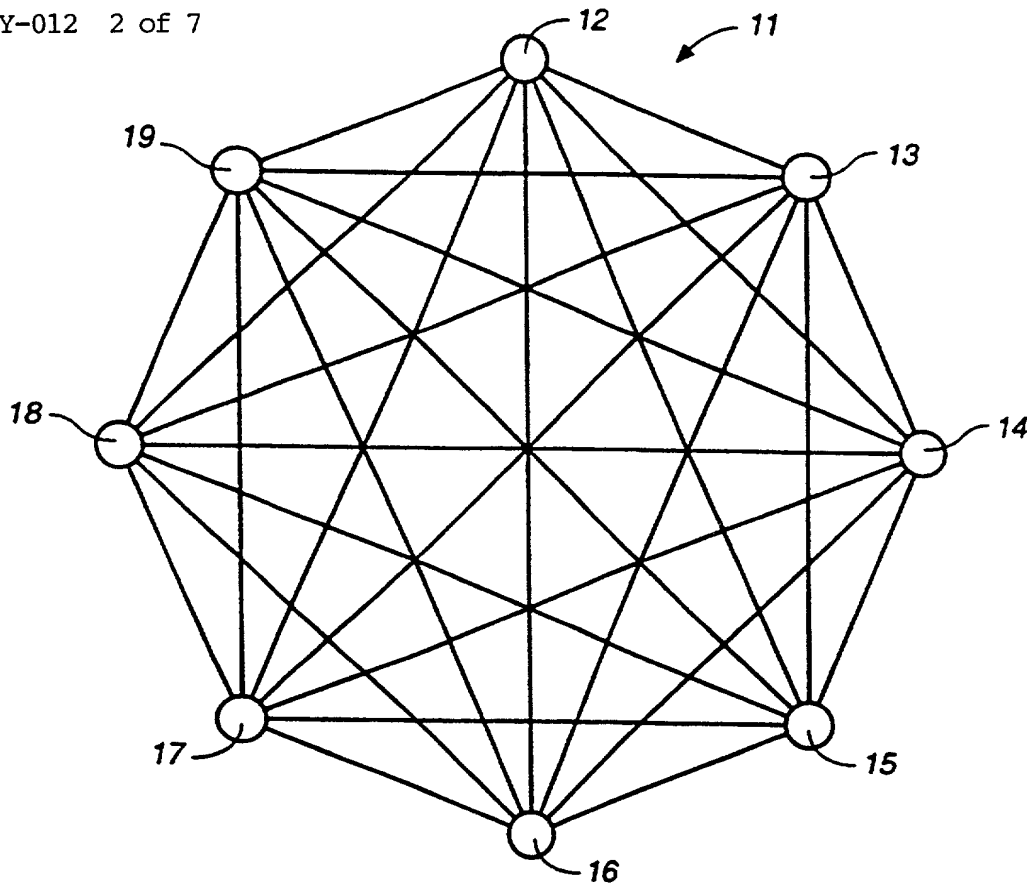(Prior Art)

Fig. 3
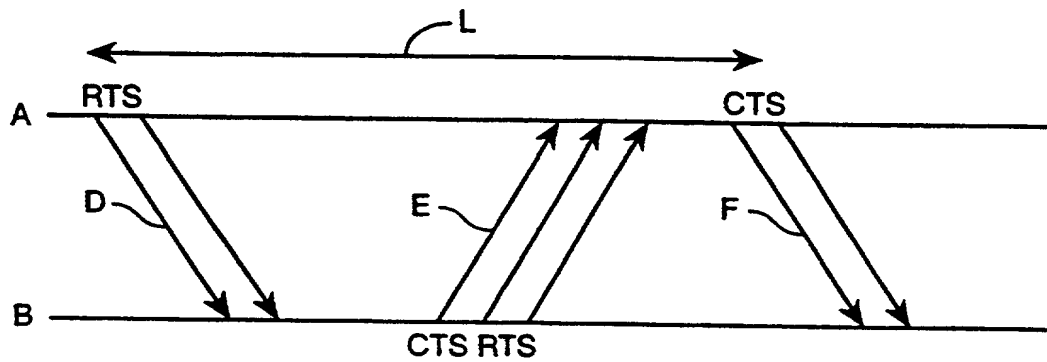(Prior Art)

Fig. 4
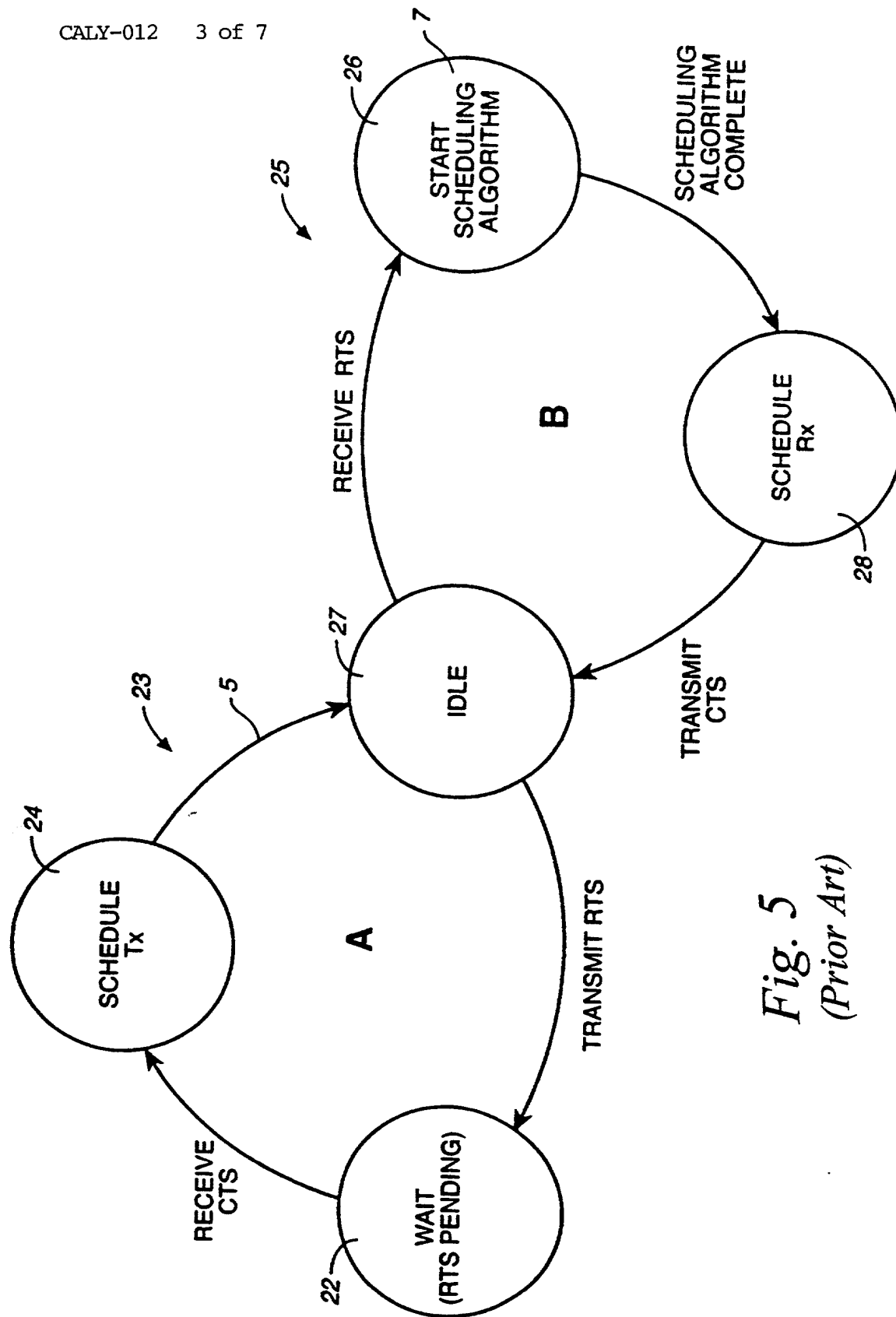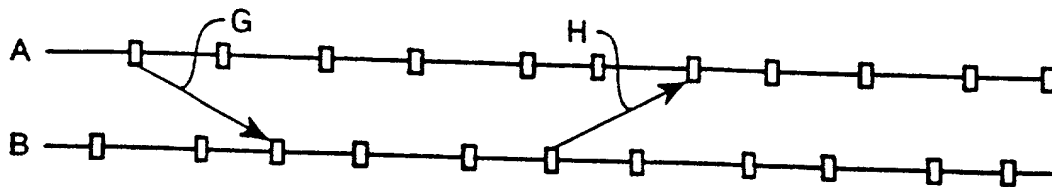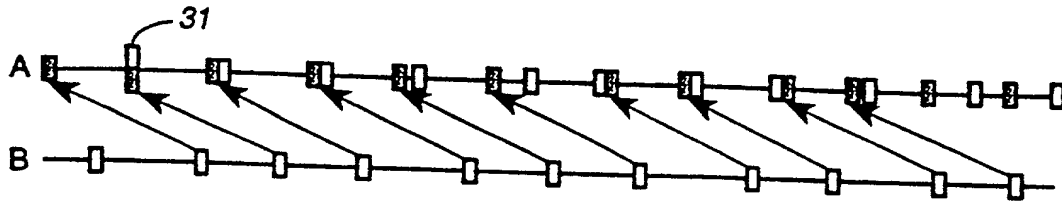(Prior Art)

Fig. 5
(Prior Art)

Fig. 6A
(Prior Art)

Fig. 6B
(Prior Art)

Fig. 7
(Prior Art)

Start
(Node Metric)

$i \rightarrow n$
**Compute Node Metric
i of From-Neighbor
Component**
$A_n(i)$

$n \rightarrow i$
**Compute Node Metric
i of To-Neighbor
Component**
$B_n(i)$

Set Node Metric *i*
to Queue Length
$Q_i(n)$

Queue length
<
BW at node *i*? —Yes

Queue length
<
BW at node *n*? —Yes▸

Set Node Metric *n*
to Queue Length
$Q_n(i)$

No

No

Set Node Metric *i* as a function of Queue Length
and BW of node *i*
$f_A[Q_i(n), BWA_i(n)]$

Set Node Metric *n* as a function of Queue
Length and BW of node *n*
$f_B[Q_n(i), BWA_n(i)]$

SUM

SUM

**More From-
Neighbor Node *i*?** —Yes

**More From-
Neighbor Node *i*?** —Yes

Yes—

No

No

SUM

END

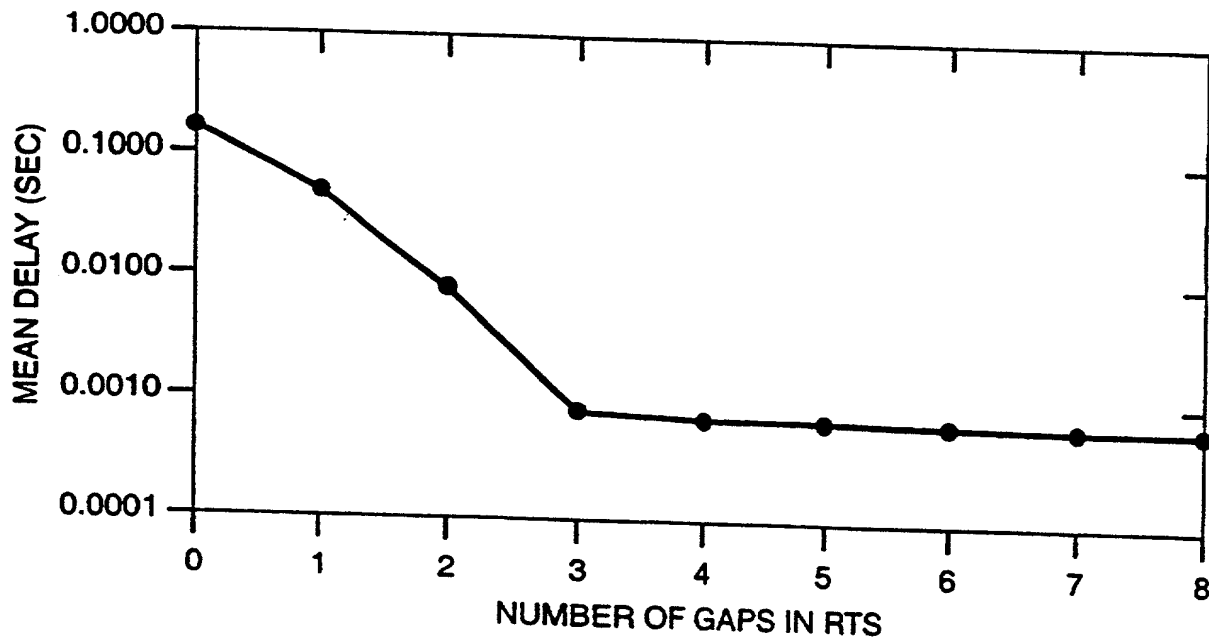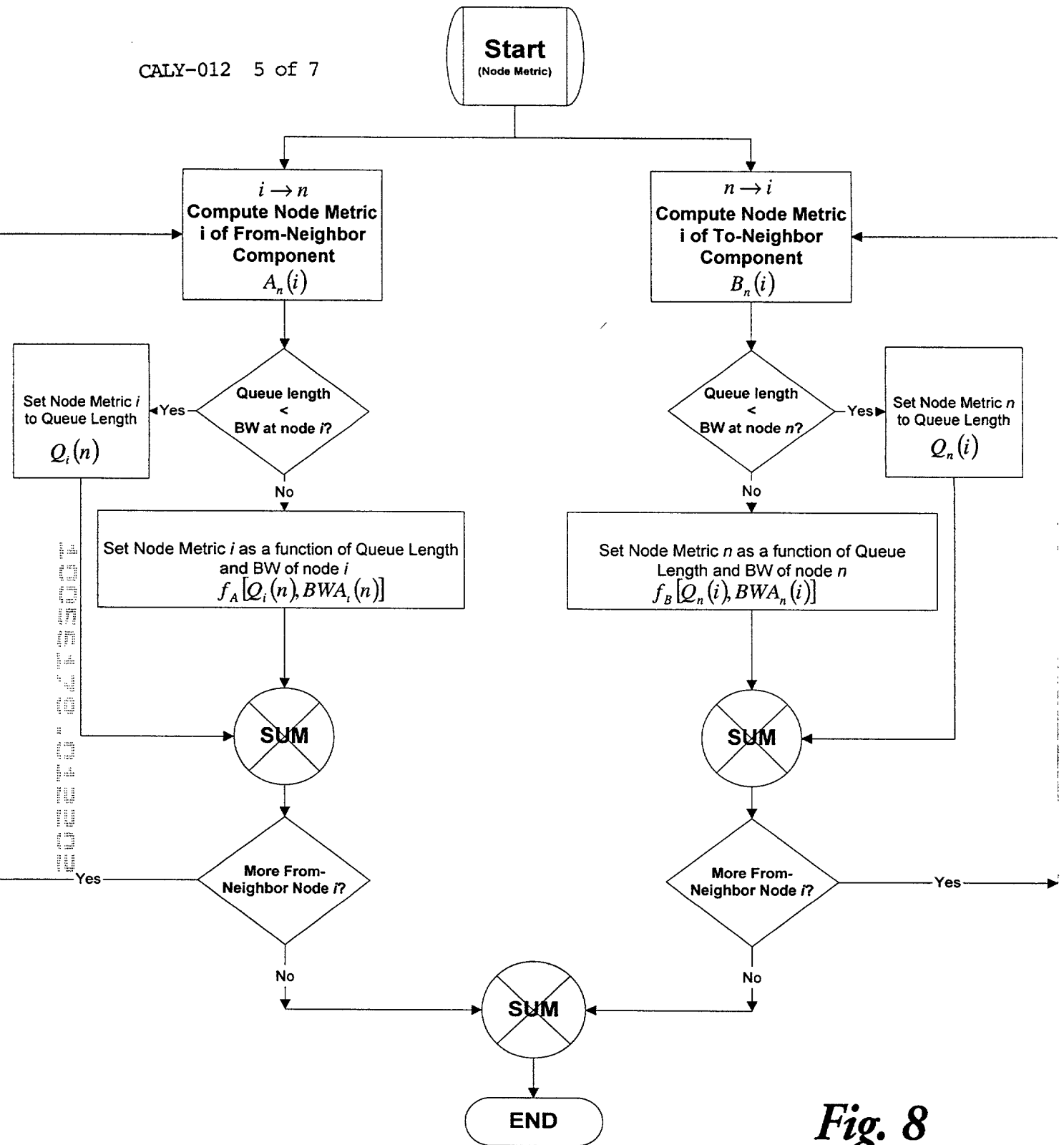*Fig. 8*

$$f_A[Q_i(n), BWA_i(n)] = (1-\alpha) \cdot Q_i(n) + \alpha \cdot [\beta \cdot Q_i(n) + (1-\beta) \cdot BWA_i(n)]$$

$$f_B[Q_n(i), BWG_i(n)] = (1-\lambda) \cdot Q_n(i) + \lambda \cdot [\theta \cdot BWG_i(n) + (1-\theta) \cdot Q_n(i)]$$

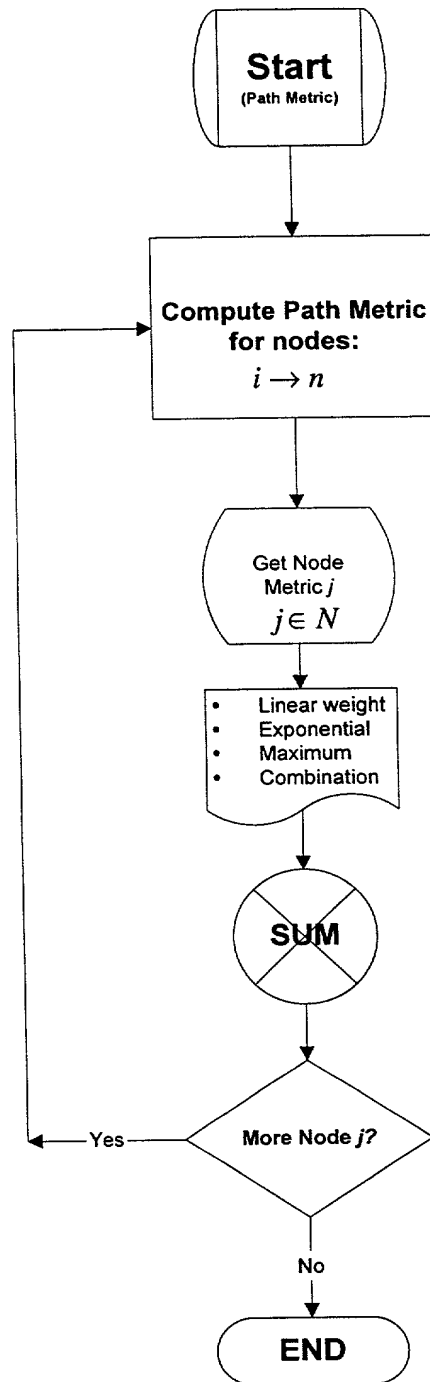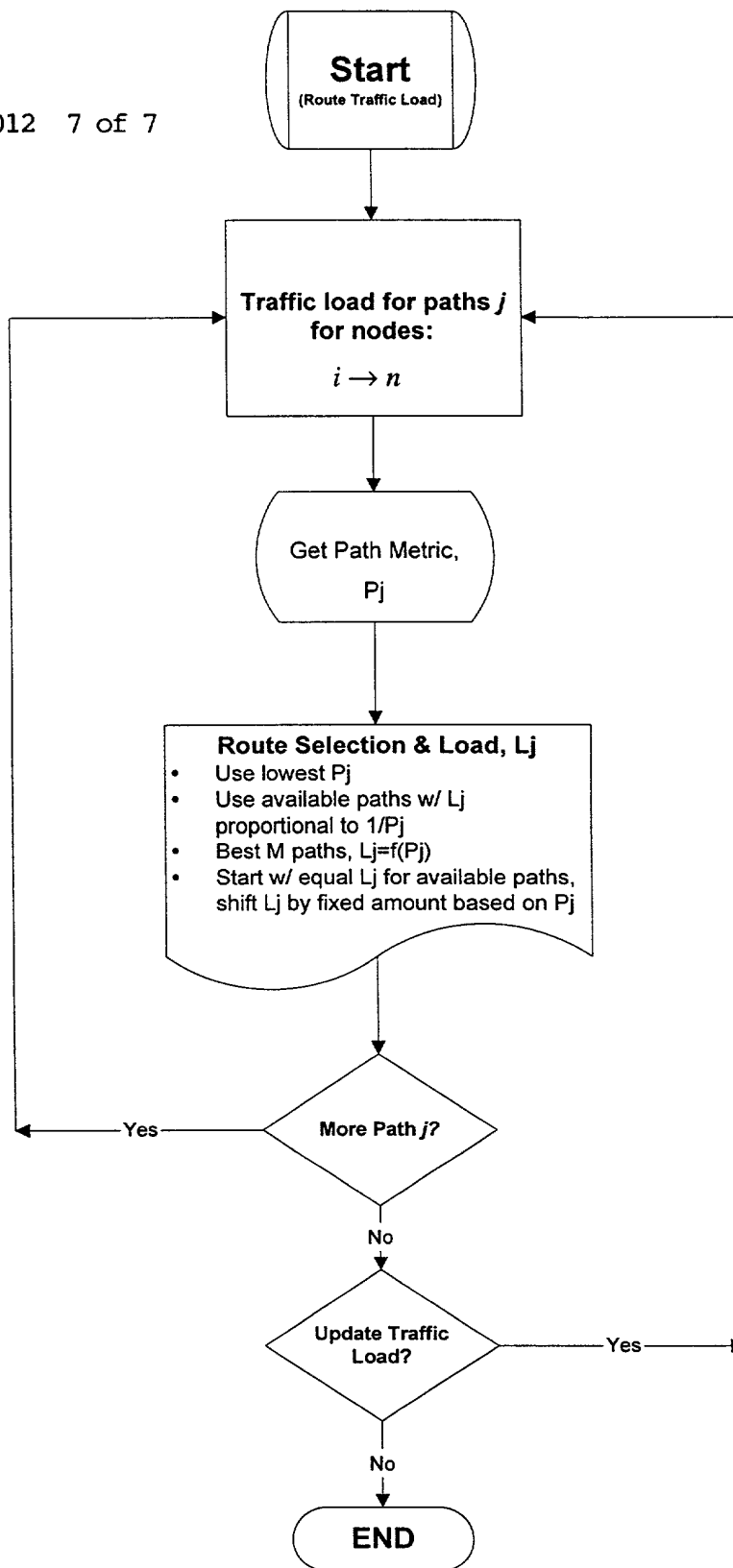**Start**
(Path Metric)

Compute Path Metric for nodes:
$$i \rightarrow n$$

Get Node
Metric j
$$j \in N$$

- Linear weight
- Exponential
- Maximum
- Combination

SUM

More Node j? —Yes

No

END

Fig. 9

Start
(Route Traffic Load)

**Traffic load for paths *j*
for nodes:**

$i \rightarrow n$

Get Path Metric,

Pj

Route Selection & Load, Lj
- Use lowest Pj
- Use available paths w/ Lj
  proportional to 1/Pj
- Best M paths, Lj=f(Pj)
- Start w/ equal Lj for available paths,
  shift Lj by fixed amount based on Pj

More Path *j*?

Yes

No

**Update Traffic
Load?**

Yes

No

END

Fig. 10